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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/596,105	05/29/2007	Hans-Helmut Bechtel	PHDE030405 US	2071
24737 7590 11/20/2009 PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001			EXAMINER	
			HOLLWEG, THOMAS A	
BRIARCLIFF MANOR, NY 10510		ART UNIT	PAPER NUMBER	
			2879	
			MAIL DATE	DELIVERY MODE
			11/20/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Entertain the common of the procession of the processio		Application No.	Applicant(s)				
Thomas A, Holiweg   2879	Office Action Comment	10/596,105	BECHTEL ET AL.				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address = Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions for the many by available under the provisions of 37 GF1 17801, in no work, however, may any by be timely filed  # MO period for right is specified above, the maximum shallutory period all applys and all capins SIX (8) MONTHS from the making date of this communication.  ## Failus to specify which his set of central period or highly shall be a period and payls and all capins SIX (8) MONTHS from the making date of this communication.  ## Failus to specify which his exist or specified above, the maximum shallutory period all applys and all capins SIX (8) MONTHS from the making date of this communication.  ## Failus to specify which his exist or specified above, the making date of this communication.  ## Failus to specify which his period or this communication.  ## Failus to specify which his period or this communication.  ## Failus to specify which his period or this communication.  ## Failus to specify which his period or this communication.  ## Failus to specify which his period or this communication.  ## Failus to specify which his period or this communication.  ## Failus to specify which his period or this communication.  ## Failus to specify which his period or this communication.  ## Failus to specify which his period or this communication.  ## Failus to specify which his period or this communication.  ## Failus to specify which his period or this communication.  ## Failus to specify which his period or this communication.  ## Failus to specify which his period or this communication.  ## Failus to specify which his period or this communication.  ## Failus to specify which his period which his	Oπice Action Summary	Examiner	Art Unit				
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WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Exhancians of time may be available under the provious of 3° CFR 1.13(b), an event, however, may a reply be timely flied after SIX (b) MCNTHS from the mailing date of this communication.  Failine to reply visibilities and or calmed plant of may will by stables, cause the application to be communication. Plants or reply received by the Cffice later than throw months when the mailing date of this communication, even if timely flied, may reduce any ceremal plants that says application is provided by the Cffice later than throw months when the mailing date of this communication, even if timely flied, may reduce any ceremal plants of the communication of the advanced plant of may will by stables, cause the application in Gast Usa. C § 133.  Any reply received by the Cffice later than throw months when the mailing date of this communication, even if timely flied, may reduce any ceremal plants of the mail of the communication of the mail of the communication is final.  1) ■ Responsive to communication (s) filed on 11 August 2009.  2a) ■ This action is FINAL.  2b) ■ This action is final.  3 ■ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4 ■ Claim(s) 1-10 is/are pending in the application.  4 ■ Claim(s) 1-10 is/are pending in the application.  4 ■ Claim(s) 1-10 is/are rejected.  7 ■ Claim(s) 1-10 is/are rejected.  7 ■ Claim(s) 1-10 is/are rejected to by the Examiner.  4 ■ Claim(s) 1-10 is/are rejected to by the Examiner.  4 ■ Claim(s) 1-10 is/are rejected to by the Examiner.  4 ■ Claim(s) 1-10 is/are rejected to by the Examiner.  4 ■ Claim(s) 1-10 is/are rejected to by the Examiner.  5 ■ Claim(s) 1-10 is/are rejected to by the Examin	The MAILING DATE of this communication app Period for Reply						
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a)	<u>.</u>						
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Attachment(s)  1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)  4) Interview Summary (PTO-413) Paper No(s)/Mail Date  5) Notice of Informal Patent Application	application from the International Bureau (PCT Rule 17.2(a)).						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date.  5) Notice of Informal Patent Application	* See the attached detailed Office action for a list of the certified copies not received.						
5) Characteristics (5) (1-1-1-2-1-3-5)	2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.						
		· <b>—</b>	atent Application				

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#### **DETAILED ACTION**

#### Acknowledgment of Amendment

1. Applicant's Amendment of August 11, 2009, is acknowledged. No claims are added or canceled. Claims 1-10 are currently pending.

# Claim Objections

- 2. The following claims are objected to for minor informalities:
  - a. Claim 1, the phrase "at least one isolating separator layer each isolating separator layer being…" is missing a comma.
  - b. Claim 6, "at least one isolating separator" lacks antecedent basis.
- 3. Appropriate correction is required.

#### Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-3 and 6-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Kimura, U.S. Patent Application Publication No. 2002/0101152 A1.
- 6. With regard to claim 1, in figure 5, Kimura discloses a display comprising a ground plate (208); at least one light emitting layer (202) and at least one isolating separator layer (220), each isolating separator layer (220) being reflective and being positioned in contacting manner on said ground plate (208), wherein the at least one

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emitting layer, (200) and the at least one isolating separator layer (220) are positioned immediately adjacent to each other in a contacting manner [0107-0116].

- 7. **With regard to claim 2**, in figure 5, Kimura discloses that the material of said at least one isolating separator layer (220) comprises a metal material [0091, 0099].
- 8. **With regard to claim 3,** in figure 5, Kimura discloses that the metal material of said at least one isolating separator layer (220) comprises a material selected from a group containing Al, V, Cr, Mn [0091, 0099].
- 9. **With regard to claim 6,** in figure 5, Kimura discloses that the surface of said at least one isolating separator (220) is specular reflective [0099].
- 10. **With regard to claim 7**, in figure 5, Kimura discloses that light impinging on said at least one isolating separator layer (220) in an angle is at least to a part reflected in a different angle [0099].
- 11. With regard to claim 8, the examiner notes that all of the claim limitations are characteristics of the display as operated and do not expressly limit the structure of the claimed device. Kimura does not expressly disclose the efficiency of the disclosed display, however, it anticipates all of the structural limitations of claim 8. These limitations have been considered, but absent a showing of a further limiting of the structure of the display, these limitations cannot distinguish the claimed display over Kimura. Further, because Kimura discloses all of the structural limitations of claim 8, and discloses that the purpose of the disclosed invention is to improve efficiency [0282], as operated, the Kimura display will be characterized in that the efficacy of the display for white light with a correlated colour temperature of 6500 K is at least ≥ 0.5 lumen/W,

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preferred  $\geq$  1.4 lumen/W, more preferred  $\geq$  3.8 lumen/W, more preferred  $\geq$  5.2 lumen/W, and most preferred  $\geq$  5.6 lumen/W.

- 12. **With regard to claim 9,** the examiner notes that the claim limitation "the display is formed by an ink-jet printing or photolithography or vacuum deposition or a combination of these processes" is drawn to a process of manufacturing which is incidental to the claimed apparatus. It is well established that a claimed apparatus cannot be distinguished over the prior art by a process limitation. Consequently, absent a showing of an unobvious difference between the claimed product and the prior art, the subject product-by-process claim limitation has been considered, but not patentably distinct over Kimura (see MPEP 2113). The Examiner notes further that the claimed methods for making are disclosed by Kimura [0208-0245].
- 13. **With regard to claim 10,** in figures 26A-26H, Kimura discloses that the display device is for use in household applications, portable applications, monitor applications, computer applications [0268-0277].

## Claim Rejections - 35 USC § 103

- 14. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 15. Claims 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kimura as applied to claims 1-3 above, in view of Hamano et al., U.S. Patent Application Publication No. 2003/0164679 A1.

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16. **With regard to claim 4**, all of the limitations are disclosed by Kimura, as discussed in the rejection of claim 3 above, however, Kimura does not expressly disclose that the aluminum reflective metallic material comprises aluminum-flakes.

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- 17. Hamano, in figure 1, discloses a reflective structure in an organic electroluminescent display where the aluminum reflective metallic material comprises aluminum-flakes [0095].
- 18. At the time of invention, it would have been obvious for a person having ordinary skill in the art to construct the Kimura display where the aluminum reflective metallic material comprises aluminum-flakes, as taught by Hamano, because aluminum-flakes are a highly efficient reflecting material.
- 19. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kimura as applied to claim 1 above, in view of Bechtel et al., U.S. Patent Application Publication No. 2003/0011306 A1.
- 20. **With regard to claim 5,** all of the limitations are disclosed by Kimura, as discussed in the rejection of claim 1 above. However, Kimura does not expressly disclose polarization plates on the display.
- 21. Bechtel teaches a  $\lambda/4$  plate and a linear polarization layer is positioned on an organic electroluminescent display device to suppress the reflections of external light from the reflective surfaces internal to the device [0051-0052].
- 22. At the time of invention, it would have been obvious for a person having ordinary skill in the art to construct the Kimura display comprising at least one  $\lambda/4$  plate and at least one linear polarisation layer positioned on the ground plate opposing said isolating

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separator layer in such a way, that ambient light that moves through the ground plate towards the isolating separator layer as well as light that moves from said isolating separator layer towards said ground plate passes said at least one  $\lambda/4$  plate and at least one linear polarisation layer. These additional layers would suppress the reflections of external light from the reflective surfaces internal to the device, as taught by Bechtel.

### Response to Arguments

23. Applicant's arguments have been considered, but are moot in view of the new grounds for rejection.

#### Conclusion

- 24. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).
- 25. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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26. Any inquiry concerning this communication or earlier communications from the

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examiner should be directed to Thomas A. Hollweg whose telephone number is (571)

270-1739. The examiner can normally be reached on Monday through Friday 7:30am-

5:00pm E.S.T..

27. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nimesh Patel can be reached on (571) 272-2457. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

28. Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/TH/

/NIMESHKUMAR D. PATEL/

Supervisory Patent Examiner, Art Unit 2879